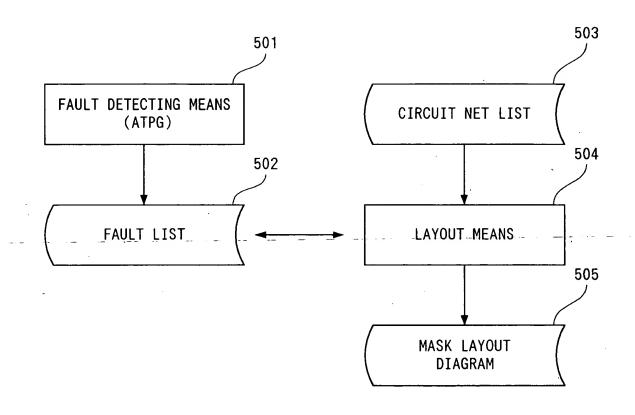
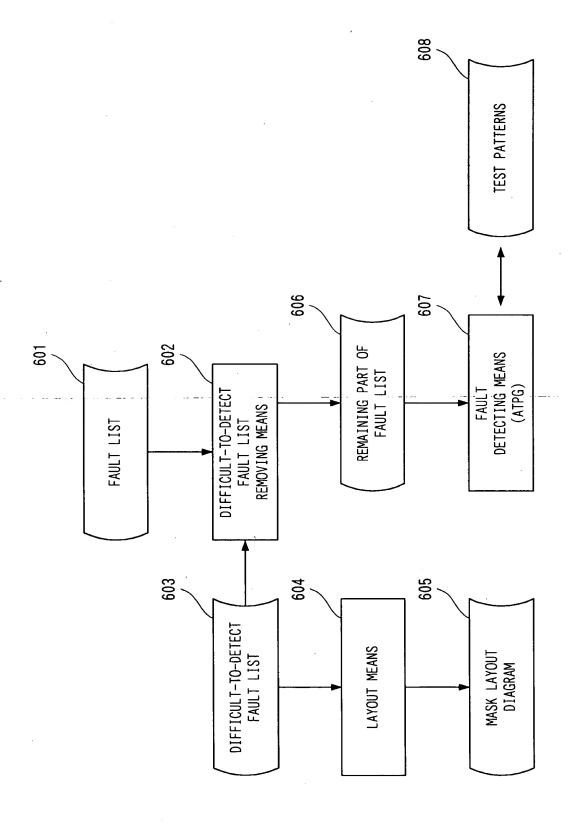


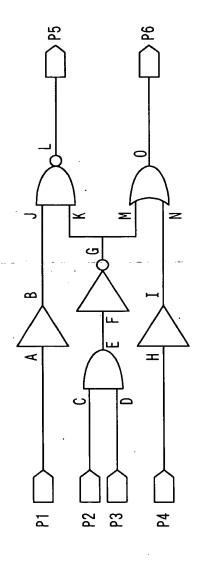
The first fi



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F I G∴3

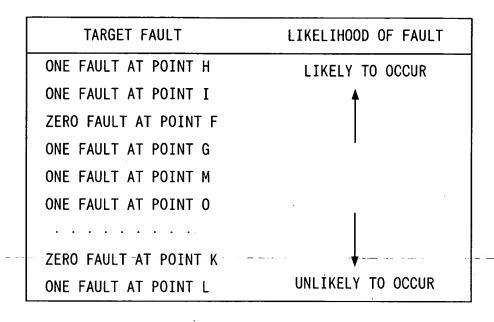


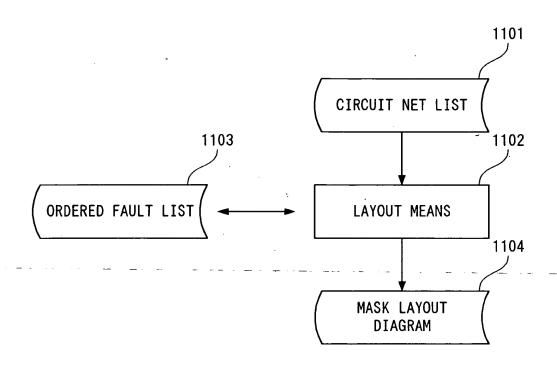


## TARGET FAULT

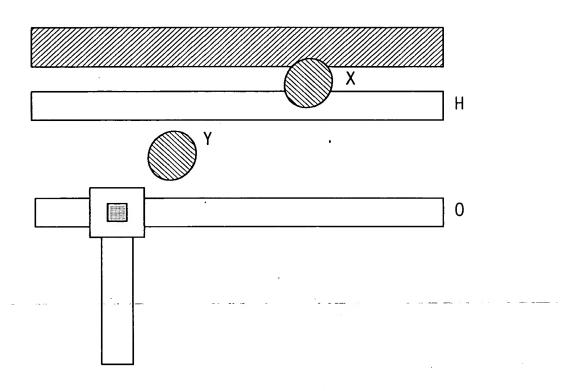
ONE FAULT AT POINT A
ZERO FAULT AT POINT A
ONE FAULT AT POINT B
ZERO FAULT AT POINT C
ZERO FAULT AT POINT C

ONE FAULT AT POINT No comment of the comment of the

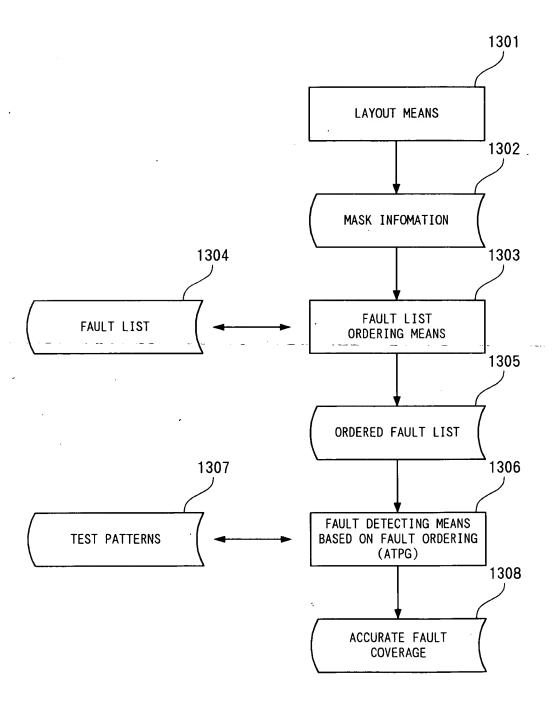




The first two tens the first two tens are the first first two tens the first first two tens the first first two tens that the first two tens the first two tens that the first two tens tha

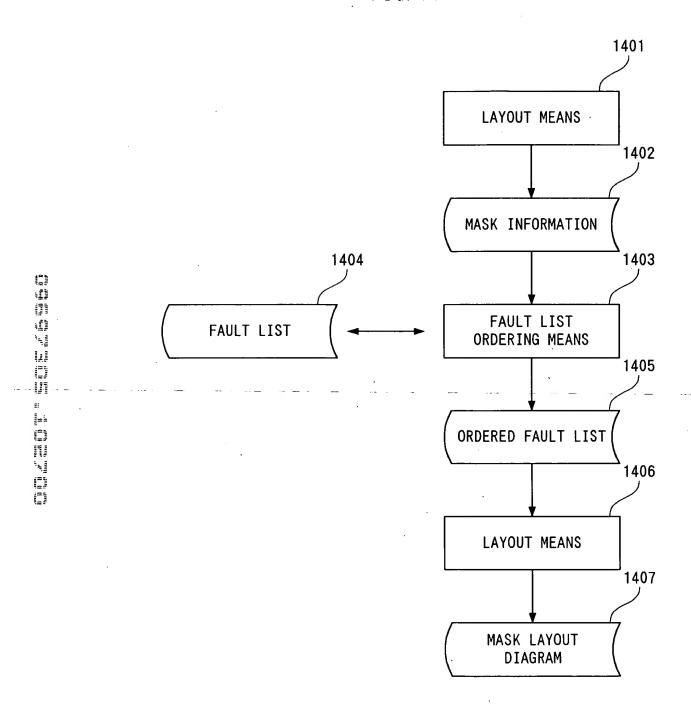


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FIG. 11



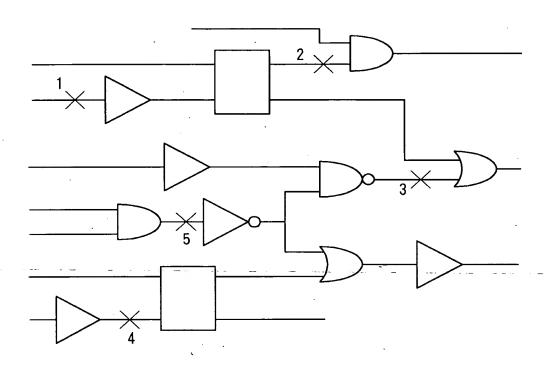


FIG. 13

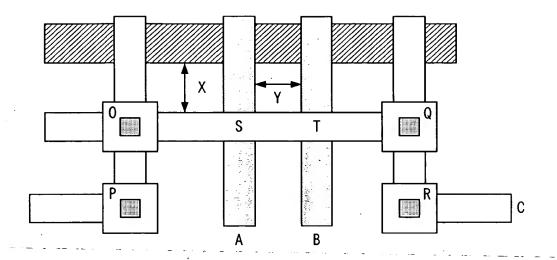


FIG. 14

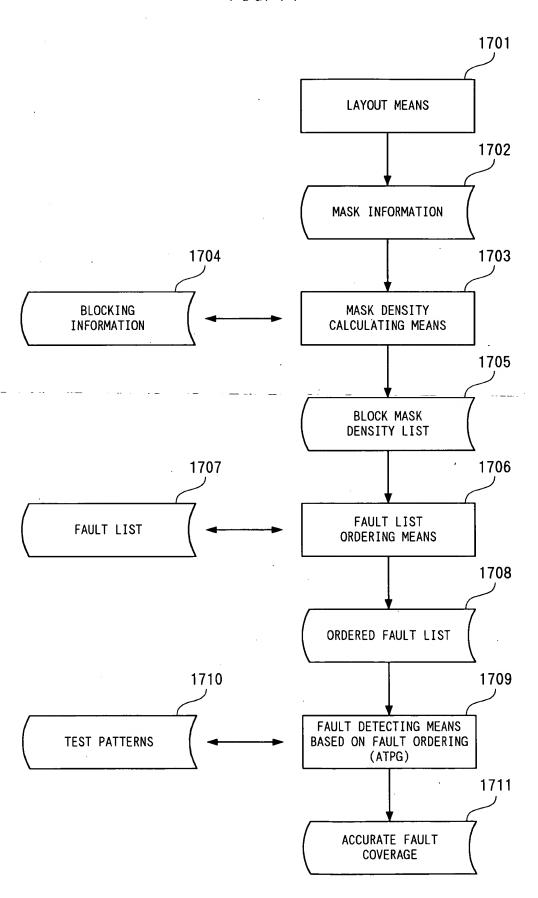
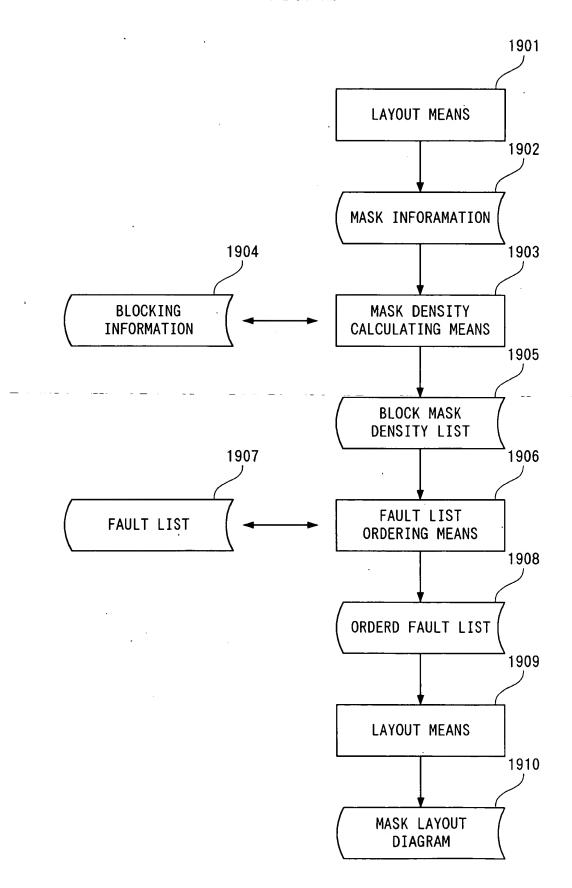


FIG. 15

CELL/BLOCK NAME	MASK DENSITY
BLOCK 1	90%
BLOCK 2	85%
BLOCK 3	91%
•	•
<u>.</u>	•
•	•
•	•
•	•

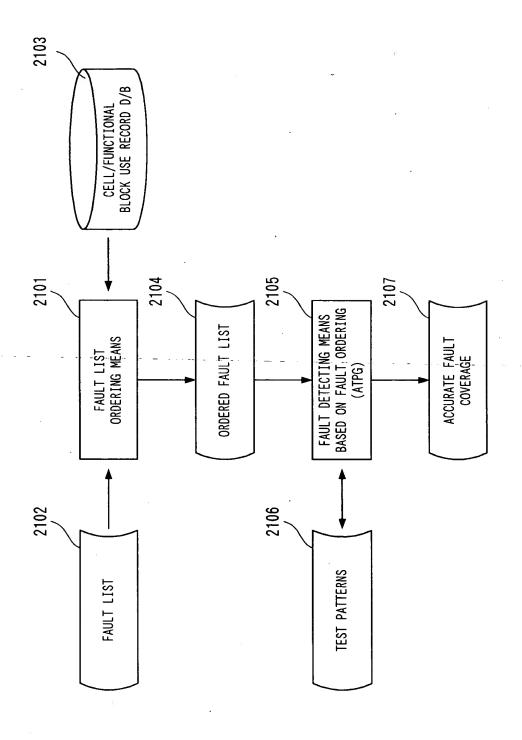
.

FIG. 16



NUMBER OF SUCCESSFUL PROCESSES	100	100	100	വ	100	100	•	•	•	•	•	•
RELIABILITY TEST STATUS	0	0	0	◁	<b>(</b>	<b>©</b>			•			•
NUMBER OF PAST DEFECTS	0	7	• • •• •	<b>м</b>	<b>o</b>	0	• - ·-	•	•	•	•	•
NUMBER OF PAST OPERATIONS	1500	200	. 008	20	1000	1201	•			•	•	
CELL /FUNCTIONAL BLOCK NAME	BLOCK A	BLOCK B	BLOCK C	BLOCK D	BLOCK E	BLOCK F	•	•	•	•	•	•

FIG. 18





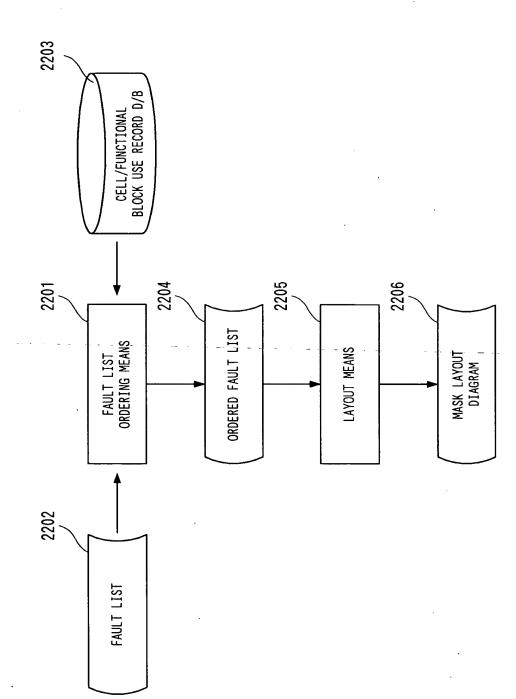
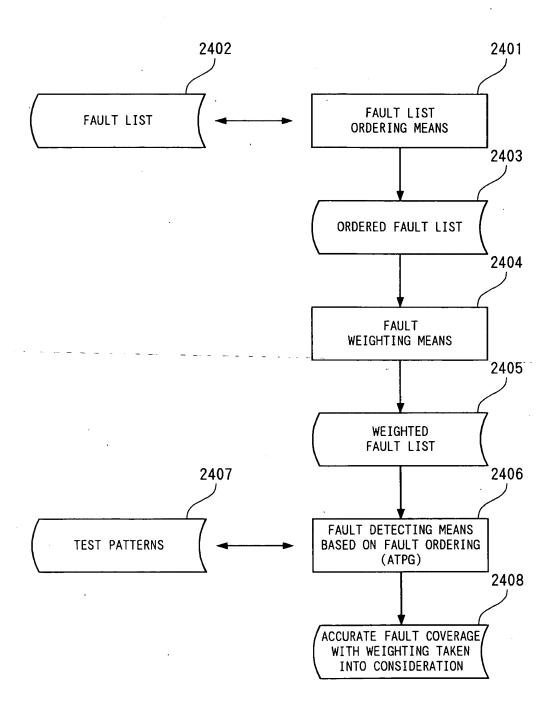


FIG. 20

TARGET FAULT	CONVENTIONAL FAULT WEIGHTING	WEIGHTING BASED ON FAULT LIKELIHOOD
ONE FAULT AT POINT A	1	0.2
ZERO FAULT AT POINT A	1	0.2
ONE FAULT AT POINT B	1	1.8
ZERO FAULT AT POINT B	1	1.6
ONE FAULT AT POINT C	1	0.5
ZERO FAULT AT POINT C	1	0.5
· · · · · · · · · · · · · · · · · · ·		
ONE FAULT AT POINT T	. 1	1.0
ZERO FAULT AT POINT T	1	1.0

FIG. 21



TARGET FAULT	WEIGHTING
ONE FAULT AT POINT H	1.95
ONE FAULT AT POINT I	1.90
ZERO FAULT AT POINT F	1.85
ONE FAULT AT POINT G	1.80
the transfer of the term of term of term of the term of term of term of term of term of term of term o	<del></del>
ZERO FAULT AT POINT S	1.05
ZERO FAULT AT POINT T	1.00
ZERO FAULT AT POINT B	0.95
	·
ZERO FAULT AT POINT K	0.10
ONE FAULT AT POINT L	0.05

FIG. 23

TARGET FAULT	WEIGHTING .	DETECTED/ UNDERECTED DETERMINATION
ONE FAULT AT POINT H	1.95	DETECTED
ONE FAULT AT POINT I	1.90	DETECTED
ZERO FAULT AT POINT F	1.85	UNDETECTED
ONE FAULT AT POINT G	1.80	DETECTED
ZERO FAULT AT POINT S	1.05	UNDETECTED
ZERO FAULT AT POINT T	1.00	DETECTED
ZERO FAULT AT POINT B	0.95	UNDETECTED
ZERO FAULT AT POINT K	0.10	UNDETECTED
ONE FAULT AT POINT L	0.05	DETECTED

FIG. 24

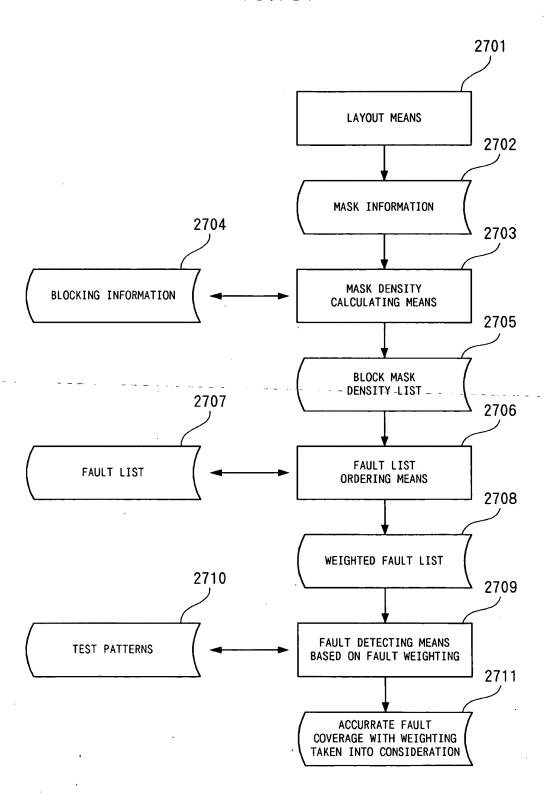


FIG. 2

TARGET	CELL/ FUNCTIONAL BLOCK	MASK DENSITY	WEIGHTING
	1 CHIP	0.	
¥	BLOCK A	ნ.	6.0
8	BLOCK B	6. 0.	0.9
ပ	BLOCK C	0.95	0.95
۵	BLOCK D	0.95	0.95
ш	BLOCK E	0.95	0.95
<b>L</b>	BLOCK F	0.8	0.8

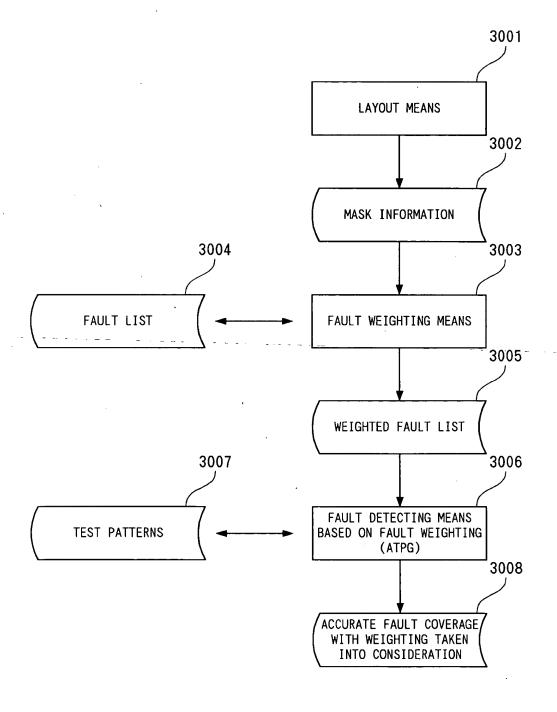
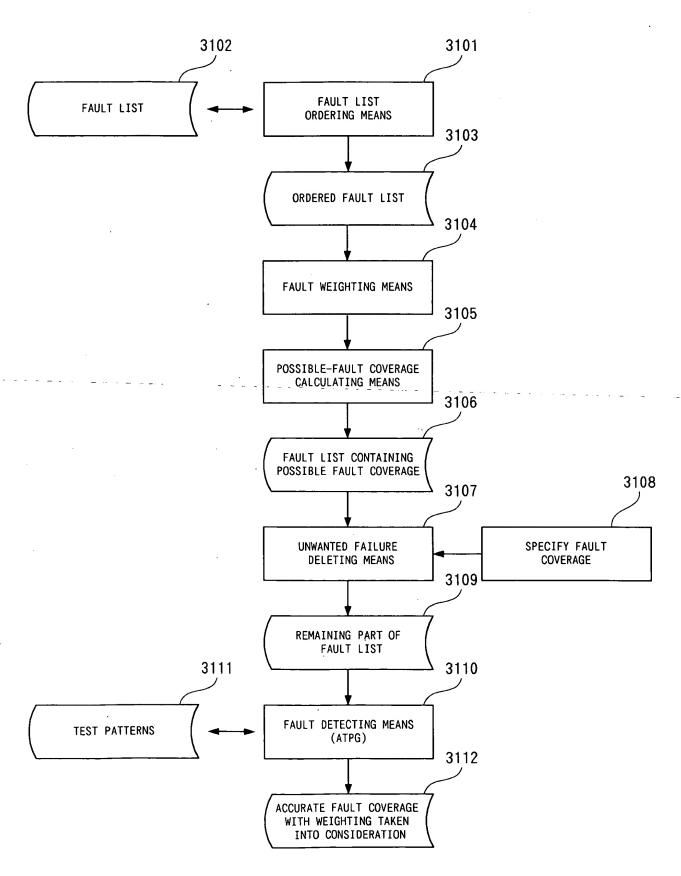
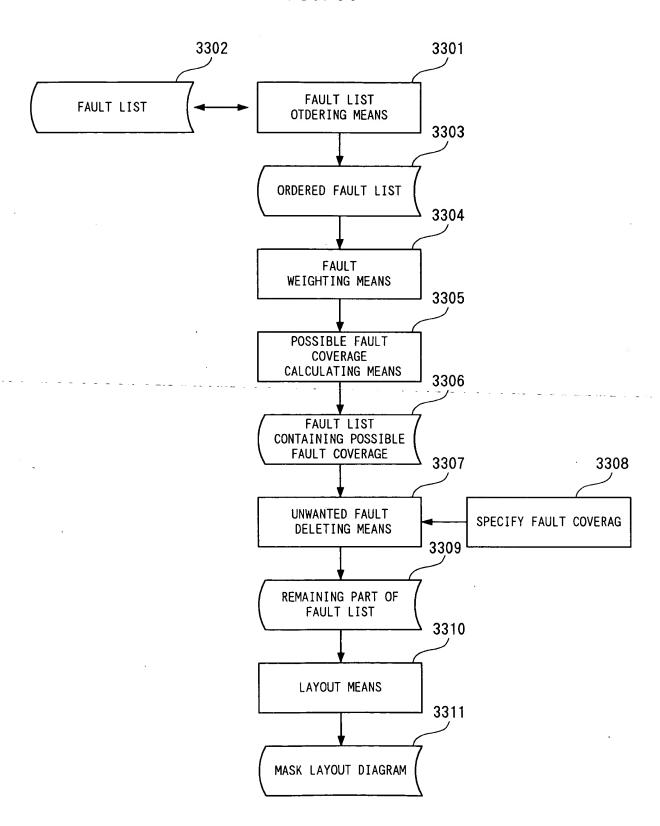


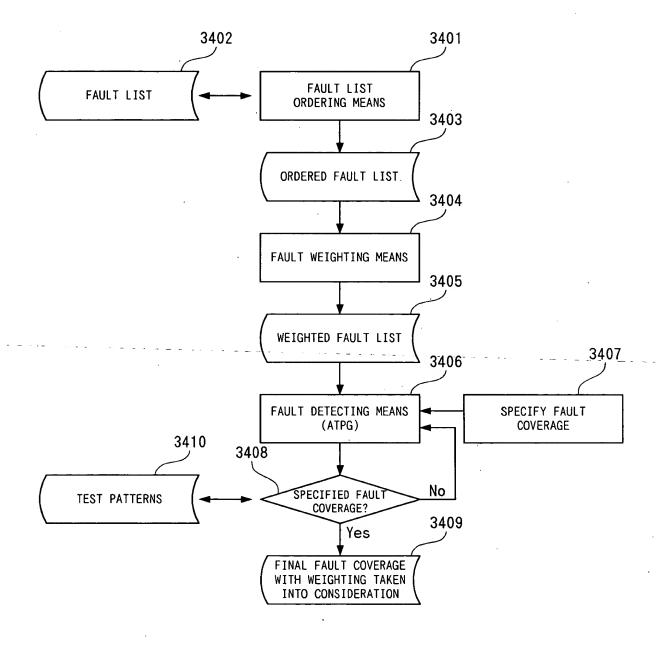
FIG. 28



TARGET FAULT	WEIGHTING	ACCUMULATED POSSIBLE FAULT COVERAGE
ONE FAULT AT POINT H	1.95	5.0%
ONE FAULT AT POINT I	1.90	9.9%
ZERO FAULT AT POINT F	1.85	14.6%
ONE FAULT AT POINT G	1.80	19.2%
		• • • •
_ZERO_FAULT_AT_POINT_K	0.10	99.9%
ONE FAULT AT POINT L	0.05	100%

FIG. 30





The first of the face of the first of the fi

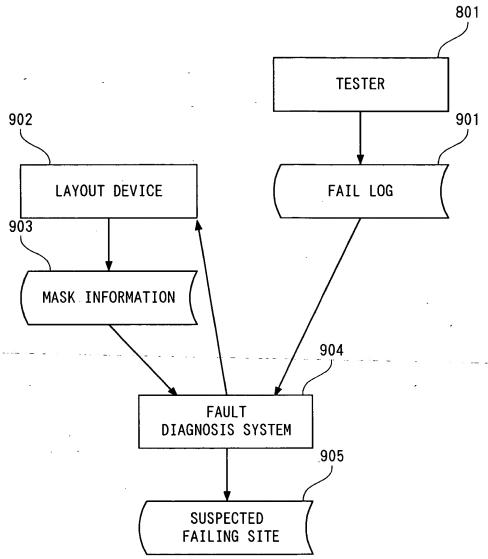
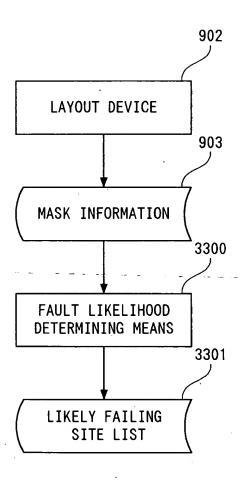
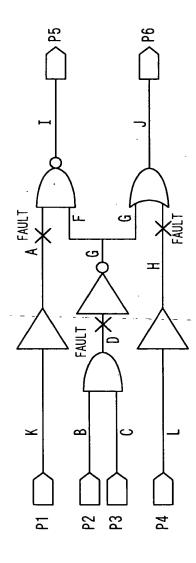


FIG. 32

FIG. 33





TIME	TEST PATTERN					
TIME		IN	EXPECTED VALUE			
	P1	P2	Р3	P4	P5	P6
1	0	0	1	0	Н	н
2	1	0	1 .	1	L	Н
3 -	0	1	1	0	Н	L
4	1	· -1 =	0.	1	L	H
5	1	1	1	1	Н	Н

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And 10 10 10 10 10 10 10 10 10 10 10 10 10
And 10 10 10 10 10 10 10 10 10 10 10 10 10
In the quit II.

TIME	TEST PATTERN						
TIME		INI	PUT		EXPE(		
	P1	P2	Р3	P4	P5	Р6	
1	0	0	1	0	L	Н	
2	1	0	1	1	L	Н	
3	0	1	1	0 -	Н	L,	
4	1 .	1 .	O.	1 _	_ L	<u>H</u>	
5	1	1 .	1	<u>.</u> 1	Н	Н	

TIME	TEST PATTERN						
TIME	INPUT				EXPECTED VALUE		
	P1	P2	Р3	P4	P5	Р6	
1	0	0	1	0		Н	
2	1	0	1 ·	1.	L	Н	
-3.	0	1	1	_0_	Ħ,		
4	1	1	0	· 1	L	Н	
5	1	1	1	1	Н	Н	

A start from the first first from the start of the first from the

TIME	TEST PATTERN						
TIME	INPUT				EXPECTED VALUE		
	P1	P2	Р3	P4	P5	P6	
1	0	0	1	0	Н	Н	
2	1	0	1	1	H	Н	
3	0	1	1	0	H	(H)	
4	1	1	0	1	H	Н	
-5	1	1	1	1	Н	Н	



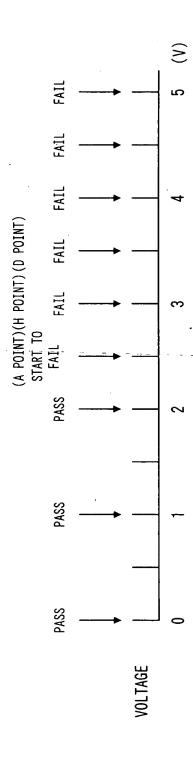


FIG. 40

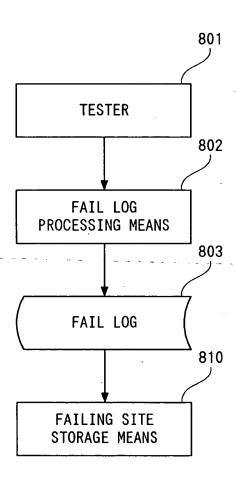
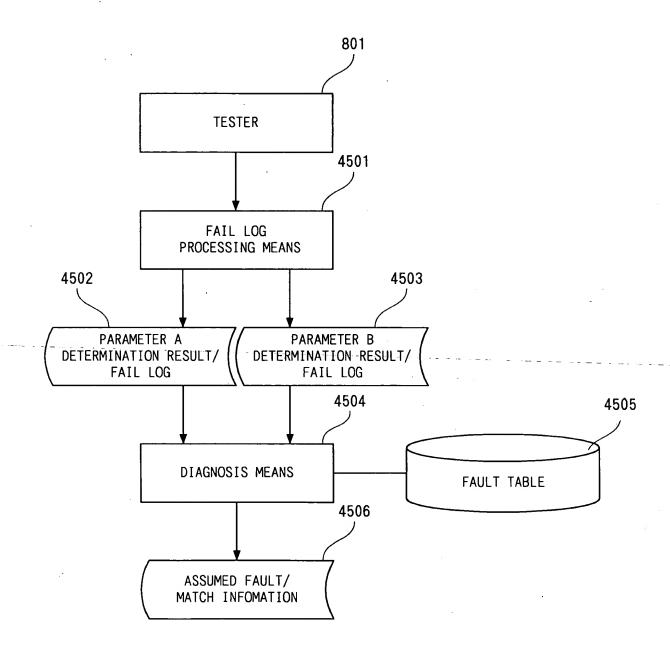
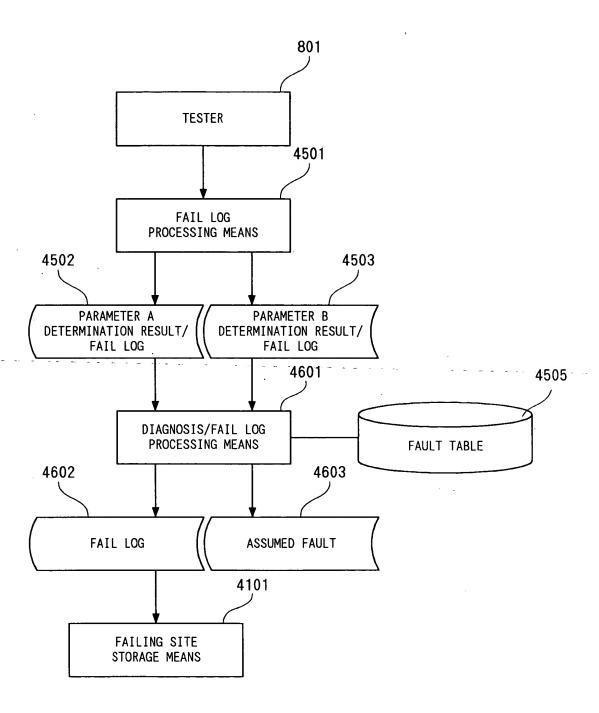


FIG. 41



PARAMETER	LIKELY FAULT			
A&B	X FAULT			
A&C	Y FAULT			
B&C	Z FAULT			
<u>A</u> &!B	α FAULT			
A&!C	β FAULT			

FIG. 43



F16.44

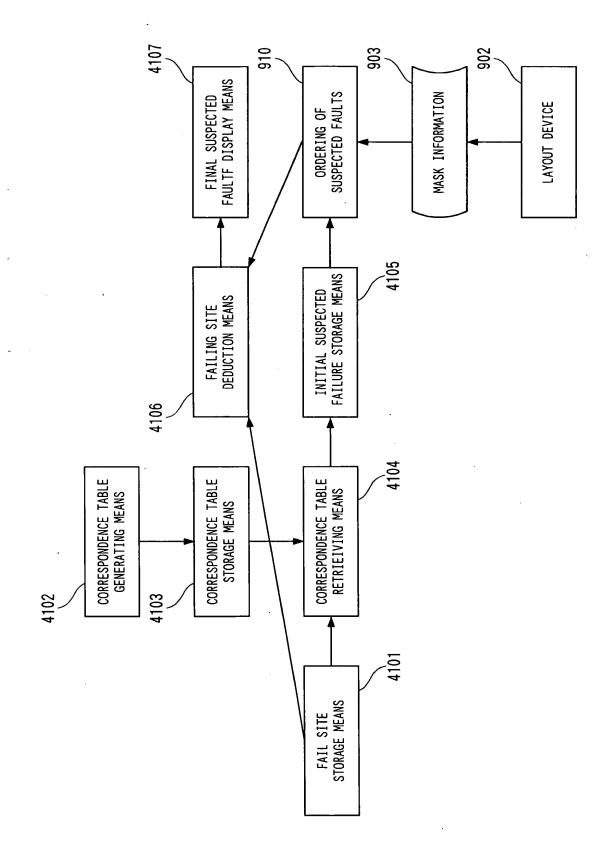


FIG. 45

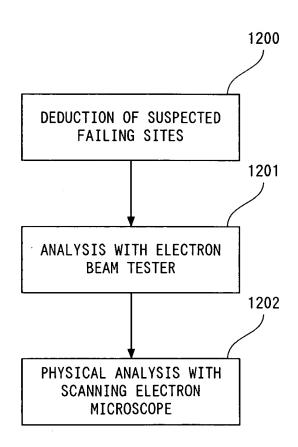


FIG. 46

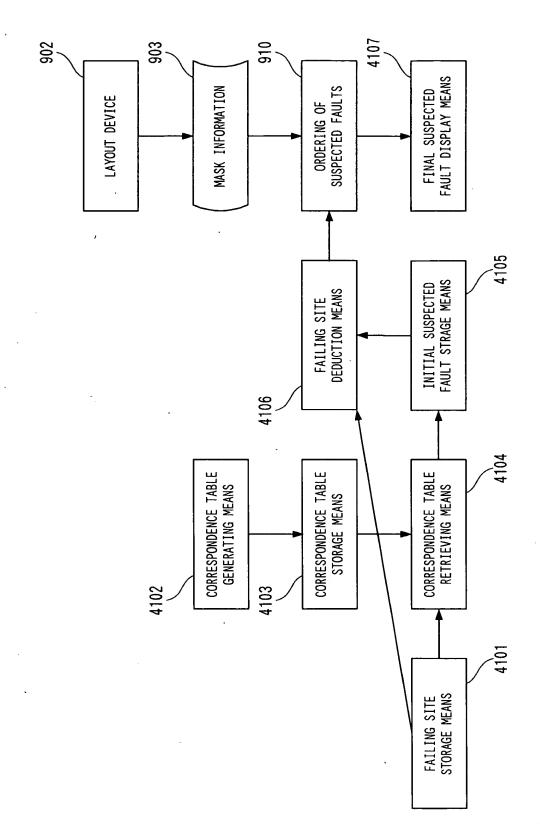


FIG. 47

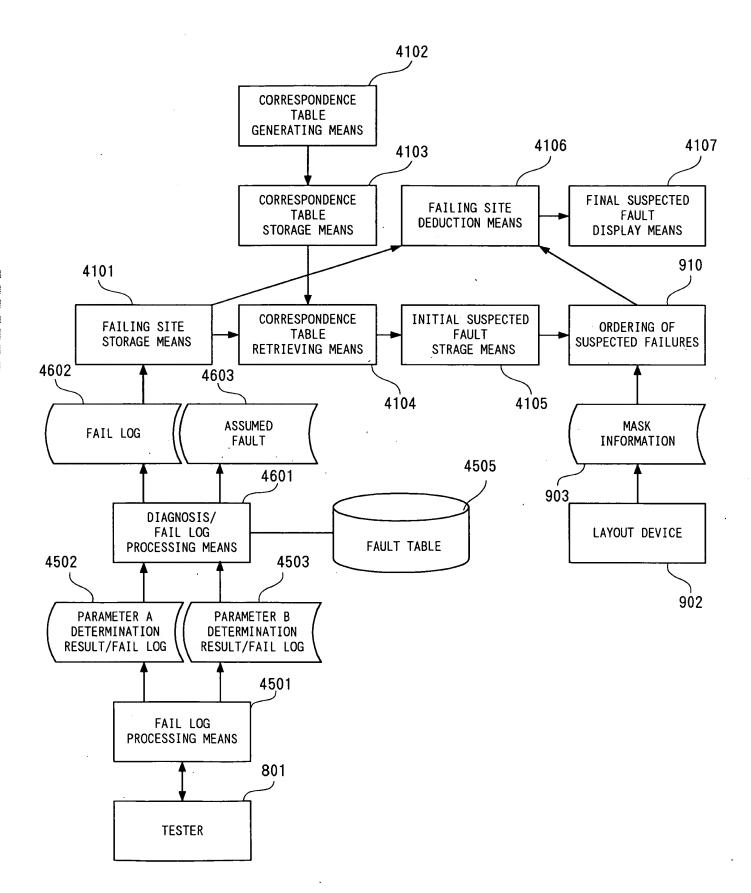


FIG. 48 PRIOR ART

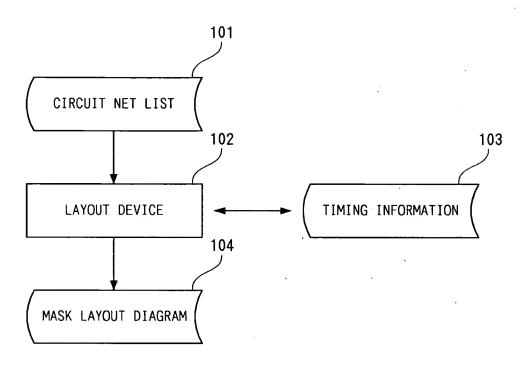


FIG. 49

PRIOR ART

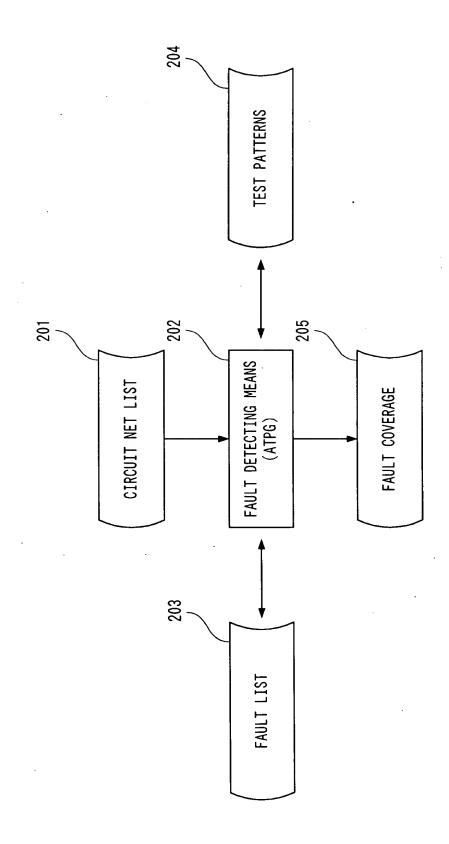
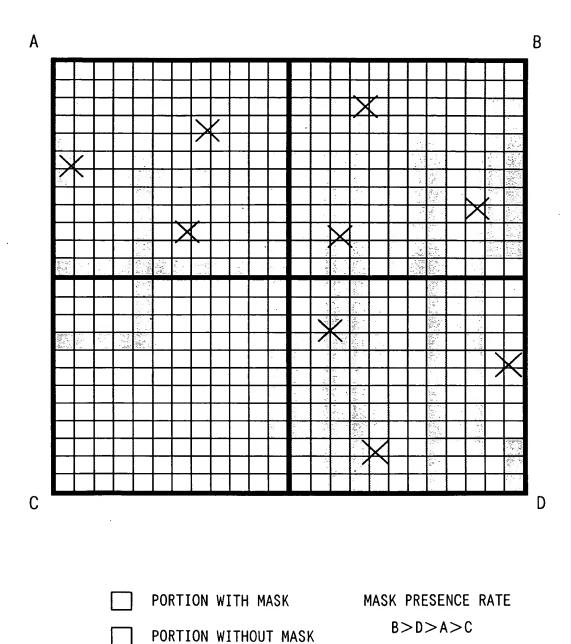


FIG. 50



X FAULT CAUSING SITE